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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/757,901	01/14/2004	Tadaaki Oikawa	09619/100L114-US1	4763
7278	7590 08/10/2006		EXAMINER	
DARBY &	DARBY P.C.	BASHORE, ALAIN L		
P. O. BOX 52	257 , NY 10150-5257		ART UNIT	PAPER NUMBER
NEW TOICE	, 10130-3237		1762	
			DATE MAILED: 08/10/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
· Office Action Summary		10/757,901	OIKAWA ET AL.			
		Examiner	Art Unit			
		Alain L. Bashore	1762			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
WHIC - Exter after - If NO - Failui Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DV nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period verous to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from a, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)🖂	Responsive to communication(s) filed on 16 M	lay 2006.				
2a)⊠	This action is FINAL . 2b) This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.			
Dispositi	on of Claims					
5)□ 6)⊠ 7)□	Claim(s) <u>1-3</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) <u>1-3</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or					
Applicati	on Papers					
9)[The specification is objected to by the Examine	er.				
•	10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
	Applicant may not request that any objection to the	- · ·	• •			
	Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex					
Priority u	nder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment						
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da				
3) 🔲 Infom	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date		Patent Application (PTO-152)			

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Application/Control Number: 10/757,901 Page 2

Art Unit: 1762

DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-3 are rejected under 35 U.S.C. 103(a) as being unpatentable over European patent 540,058 (Osawa) in view of Arai et al in further view of Murayama et al and Awano et al

Osawa discloses a method for manufacturing a magnetic recording medium comprising laminating a non-magnetic under-layer on a non-magnetic substrate (p 3, line 5-6), laminating a magnetic layer on said under-layer by forming an oxide layer on a surface, depositing a magnetic layer component comprising ferromagnetic grains and grain boundaries surrounding said grains (p 3, lines 6-13). There is subsequently laminated a protective film on said magnetic layer and a liquid lubricant layer on the protective film (p 5, lines 14-16).

Art Unit: 1762

Osawa does not disclose:

exposure to an atmosphere of oxygen-containing gas; ferromagnetic grains and grain boundaries surrounding the grains. repeating magnetic layer on oxide layer multiple times;

Arai et al discloses exposure to an atmosphere of oxygen-containing gas during the manufacture of a magnetic recording medium (see abstract).

It would have been obvious to one with ordinary skill in the art to include exposure to an atmosphere of oxygen-containing gas during the manufacture of a magnetic recording medium because Arai et al teaches metal oxide films as common (col 1, lines 44-46).

Murayama et al discloses ferromagnetic grains and grain boundaries surrounding the grains (see abstract).

It would have been obvious to one with ordinary skill in the art to include ferromagnetic grains and grain boundaries surrounding the grains because Murayama et al teaches controlling grain size for desired characteristics (col 2, lines 23-28).

Art Unit: 1762

Awano et al discloses that magnetic layers may be repeated multiple times (col 6, lines 45-50).

It would have been obvious to one with ordinary skill in the art to include magnetic layers that may be repeated multiple times because Awano et al teaches advantages of alternating layer stack (col 5, lines 60-67; col 6, lines 1-6).

Response to Arguments

3. Applicant's arguments with respect to claims of record have been considered but are most in view of the new ground(s) of rejection. Augments regarding coercive force improvement not commensurate in scope with what is currently claimed.

Conclusion

4. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any

Application/Control Number: 10/757,901 Page 5

Art Unit: 1762

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alain L. Bashore whose telephone number is 571-272-6739. The examiner can normally be reached on about 7:30 am to 5:00 pm (Mon. thru Thurs.).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Meeks can be reached on 571-272-1423. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Alain L. Bashore Primary Examiner Art Unit 1762